ECO-1814(B)-Quick Installation Guide-C01

Tips:

I: How to identify the first pin of the jumpers and connectors

1. The first pin is marked as "1" or solder pad or bold lines or triangular symbols;
2. The red line on the cable or other marks show that they should be connected with the first pin of the socket.

II: Please refer to the manual in the enclosed CD for detailed installation.

III: I/O baffle can be optionally configured to EC7, EC8, EC9 and EC0 series motherboards of EVOC.

Warning!

Please adopt appropriate screws and proper installation methods (including board allocation, CPU and heat sink installation, etc); otherwise, the board may be damaged. It is recommended to use M3x6 GB9074.4-88 screws at H1 ~ H10.

Choose Voltage Mode for Serial Port with Power (Pitch: 2.54mm)	Setup	Function
JP11/JP12	1-2 Short	Normal (Default)
	3-4 Short	Choose 5V Serial Port
	5-6 Short	Choose 12V Serial Port

Note: COM3 and COM4 supports serial port voltage selection. JP11 corresponds to PIN9 setup of COM3, and JP12 corresponds to PIN9 setup of COM4. The maximum current provided is 1.5A.

ATX 12V Power (Pitch: 4.2mm)	Pin	Signal Name
PWR2	1	GND
	2	GND
	3	+12V
	4	+12V

RS-232/RS-422/RS-485 Mode Selection for COM1 and COM2 (Pitch: 2.54mm)	Pin Setting	Mode Selection		
		RS-232 (Default)	RS-485	RS-422
JP1, JP6	JP1	1-2	3-4	5-6
JP2~JP5 JP7~JP10	JP2	1-2	2-3	2-3
	JP3	1-2	2-3	2-3
	JP4	1-2	2-3	2-3
	JP5	1-2	2-3	2-3
	JP6	1-2	3-4	5-6
	JP7	1-2	2-3	2-3
	JP8	1-2	2-3	2-3
	JP9	1-2	2-3	2-3
	JP10	1-2	2-3	2-3

Note: JP1 ~ JP5 are used to set COM1; JP6 ~ JP10 are used to set COM2.

ATX Power (Pitch: 4.2mm)	Pin	Signal Name	Pin	Signal Name
PWR1	1	+3.3V	13	+3.3V
	2	+3.3V	14	-12V
	3	GND	15	GND
	4	+5V	16	PS_ON#
	5	GND	17	GND
	6	+5V	18	GND
	7	GND	19	GND
	8	PWROK	20	-5V
	9	+5VSB	21	+5V
	10	+12V	22	+5V
	11	+12V	23	+5V
	12	+3.3V	24	GND

GPIO (Pitch: 2.54mm)	Pin	Signal Name	Pin	Signal Name
GPIO1	1	GPIO1	2	GPIO5
	3	GPIO2	4	GPIO6
	5	GPIO3	6	GPIO7
	7	GPIO4	8	GPIO8
	9	GND	10	NC

Note: the factory default values for the connector are pin 1, 3, 5 and 7 are for TTL input while pin 2, 4, 6 and 8 are for TTL output. The voltage range for the IO signals is 0 ~ 3.3V.

ATX Power Switch and HDD Indicator (Pitch: 2.54mm)	Pin	Signal Name	Pin	Signal Name
FP1	1	PWRBTN#	2	GND
	3	GND	4	RESET#
	5	HDD_LED-	6	HDD_LED+

Serial Port (Pitch: 2.54mm)	Pin	Signal Name		
		COM1~COM6	COM1/COM2	
		RS-232	RS-422	RS-485
J1 (COM1)	1	DCD#	TXD-	Data-
	2	RXD	TXD+	Data+
	3	TXD	RXD+	NC
	4	DTR#	RXD-	NC
	5	GND	GND	GND
	6	DSR#	NC	NC
	7	RTS#	NC	NC
	8	CTS#	NC	NC
	9	RI#	NC	NC
COM2~COM6	10	NA	NA	NA

Note: the data transmission direction is controlled automatically at RS-485 mode.

Power Indicator (Pitch: 2.54mm)	Pin	Signal Name
FP2	1	+5V
	2	NC
	3	GND

Loudspeaker Output (Pitch: 2.54mm)	Pin	Signal Name
FP3	1	SPEAKER
	2	NC
	3	GND
	4	+5V

Clear/Keep CMOS Setting (Pitch: 2.54mm)	Setup	Function
JCC1	1-2 Open	Normal (Default)
	1-2 Short	Clear the contents of CMOS and all BIOS settings will restore to factory default values

Note: the maximum memory capacity supported by the board is up to 4GB.

The board provides two standard fan connectors (CPUFAN1 and SYSFAN1) with PWM speed adjustment and speed feedback function. Pay attention to the following three issues when using the fan socket:

- The current for fan shall not exceed 700mA (12V);
- Please confirm that the fan cable complies with the socket cable. Power cable (usually red) is in the middle position. In addition, please confirm the earth cable (usually black) and fan speed output impulse signal cable (other colors). Some fans have no speed detection while the output of the cable is up to 12V, so using these substandard connections will destroy the CPU card. It is recommended to use a fan with speed detection.
- Adjust the fan's airflow to the direction of heat venting.

Fan (Pitch: 2.54mm)	Pin	Signal Name
CPUFAN1 SYSFAN1	1	GND
	2	+12V
	3	FAN_IO
	4	FAN_PWM

FAN_IO: fan speed impulse output; FAN_PWM: fan speed PWM control.

USB (Pitch: 2.54mm)	Pin	Signal Name	Pin	Signal Name
J4/J5	1	+5V	2	+5V
	3	USB1_Data-	4	USB2_Data-
	5	USB1_Data+	6	USB2_Data+
	7	GND	8	GND
	9	NA	10	GND